

1c549 U.S. PTO

09/339137



06/24/99

2	Class	Subclass	ISSUE CLASSIFICATION

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PATENT NUMBER

6266818



6266818

## U.S. UTILITY PATENT APPLICATION

9.8	O.I.P.E.
SCANNED <i>CL3</i>	O.A. <i>du</i>

PATENT DATE

JUL 31 2001

SECTOR	CLASS 2	SUBCLASS 002.5	ART UNIT 3747	EXAMINER MURAMOTO
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## PREPARED AND APPROVED FOR ISSUE

## ISSUING CLASSIFICATION

ORIGINAL		CROSS REFERENCE(S)					
CLASS	SUBCLASS	CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)				
2	2.5	428	977				
INTERNATIONAL CLASSIFICATION		442	189				
E91H	1102						
E91H	1104						

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<input type="checkbox"/> <b>TERMINAL DISCLAIMER</b>	<b>DRAWINGS</b>			<b>CLAIMS ALLOWED</b>	
	Sheets Drwg. 1613	Figs. Drwg. 16	Print Fig. 1	Total Claims 10707	Print Claim for O 1
<input checked="" type="checkbox"/> a) The term of this patent subsequent to _____ (date) has been disclaimed.	Robert H. Muramoto Jr 10/26/00 (Assistant Examiner) (Date)			<b>NOTICE OF ALLOWANCE MAILED</b> 11/1/00	
<input type="checkbox"/> b) The term of this patent shall not extend beyond the expiration date of U.S. Patent. No. _____	JOHN J. CALVERT SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700 <i>826</i> (Primary Examiner) 10/26/00 (Date)			<b>ISSUE FEE</b> Amount Due 620.00 Date Paid 1-8-01	
<input type="checkbox"/> c) The terminal _____ months of this patent have been disclaimed.	_____ (Legal Instruments Examiner) (Date)			<b>ISSUE BATCH NUMBER</b> 1140	

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(Rev. 6/98)

Normal Drawings (16 sheets) set (LABEL AREA)

ISSUE FEE IN FILE

SERIAL NUMBER	FILING DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
09/339,137	06/24/99	002	3741	W0490/7005

APPLICANT

CHARLES A. HOWLAND, WESTON, MA; VIRGINIA HOWLAND, WESTON, MA; NARAIN SCHROEDER, NASHUA, NH.

\*\*CONTINUING DOMESTIC DATA\*\*\*\*\*

VERIFIED PROVISIONAL APPLICATION NO. 60/105,601 10/26/98

*LM*

\*\*371 (NAT'L STAGE) DATA\*\*\*\*\*

VERIFIED

*LM*  
*LM*

\*\*FOREIGN APPLICATIONS\*\*\*\*\*

VERIFIED

*LM*  
*LM*

IF REQUIRED, FOREIGN FILING LICENSE GRANTED 07/21/99 \*\* ~~SECRET~~ QUALITY \*\*

Foreign Priority claimed 35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after Allowance	STATE OR COUNTRY MA	SHEETS DRAWING 16	TOTAL CLAIMS 97	INDEPENDENT CLAIMS 13
Verified and Acknowledged <i>LM</i> Examiner's Initials Initials					

ADDRESS

NEIL P FERRARO  
C/O WOLF GREENFIELD & SACKS PC  
FEDERAL RESERVE PLAZA  
600 ATLANTIC AVENUE  
BOSTON MA 02210-2211

TITLE

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# PATENT APPLICATION



09339137

JC549 U.S. PTO

09/339137



06/24/99

JUL 09 1999

## When Entering a Paper See Scanned Notice Inside File

Date received  
(Incl. C. of M.)  
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Date Mailed

1. Application _____ papers.	42. _____	
2. <u>IDS</u>	43. _____	
3. <u>REJECTION</u>	44. _____	
4. <u>Ex. of Time</u> C. of M. 7-4-10	45. _____	
5. <u>Amend</u>	46. _____	
6. <u>IDS</u>	47. _____	
7. <u>Notice of Allowability</u>	48. _____	
8. <u>App no</u>	49. _____	
9. <u>Amend B. r. (R312)</u>	50. _____	
10. <u>Notice of Entry</u>	51. _____	
11. <u>Formal Drawings 13 sheets</u>	52. _____	
12. <u>Notice of Director Ordered Exam</u>	53. _____	
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41. _____	82. _____	

1-16

604030 2E19200  
604030 2E19200

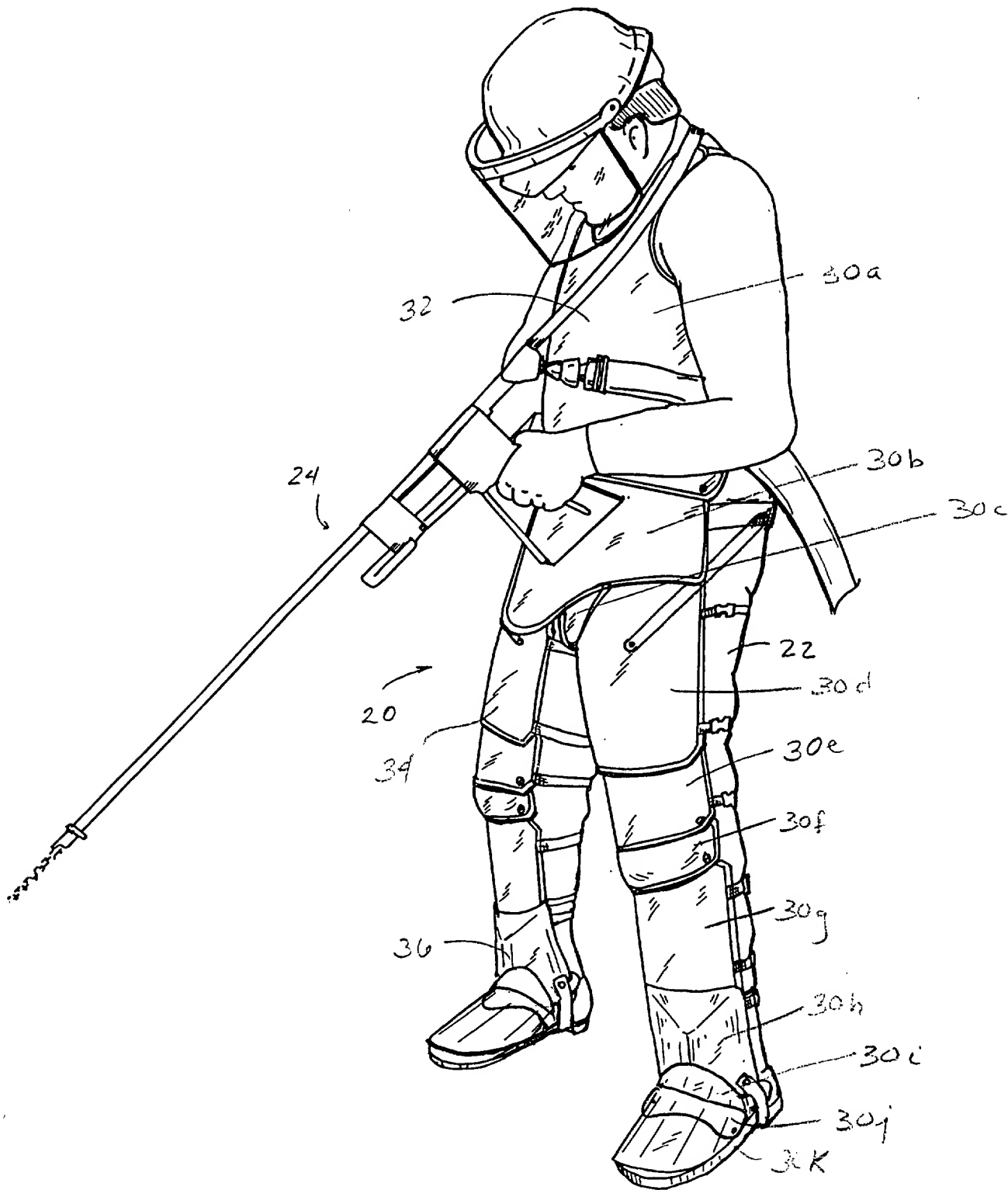


FIG. 1

60490-2-00000

60490-2-00000

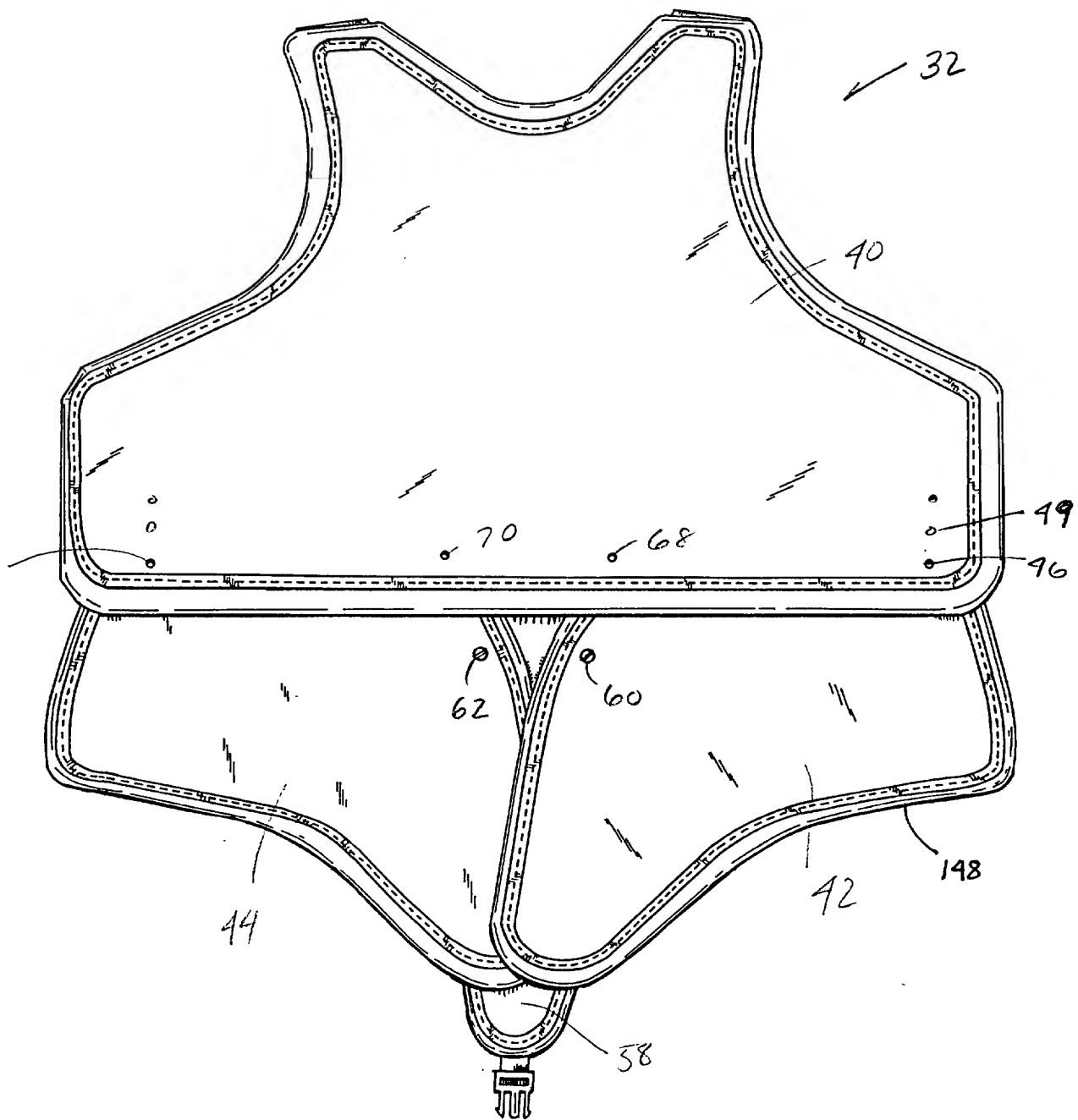


FIG. 2

FIG. 3

FIG. 3

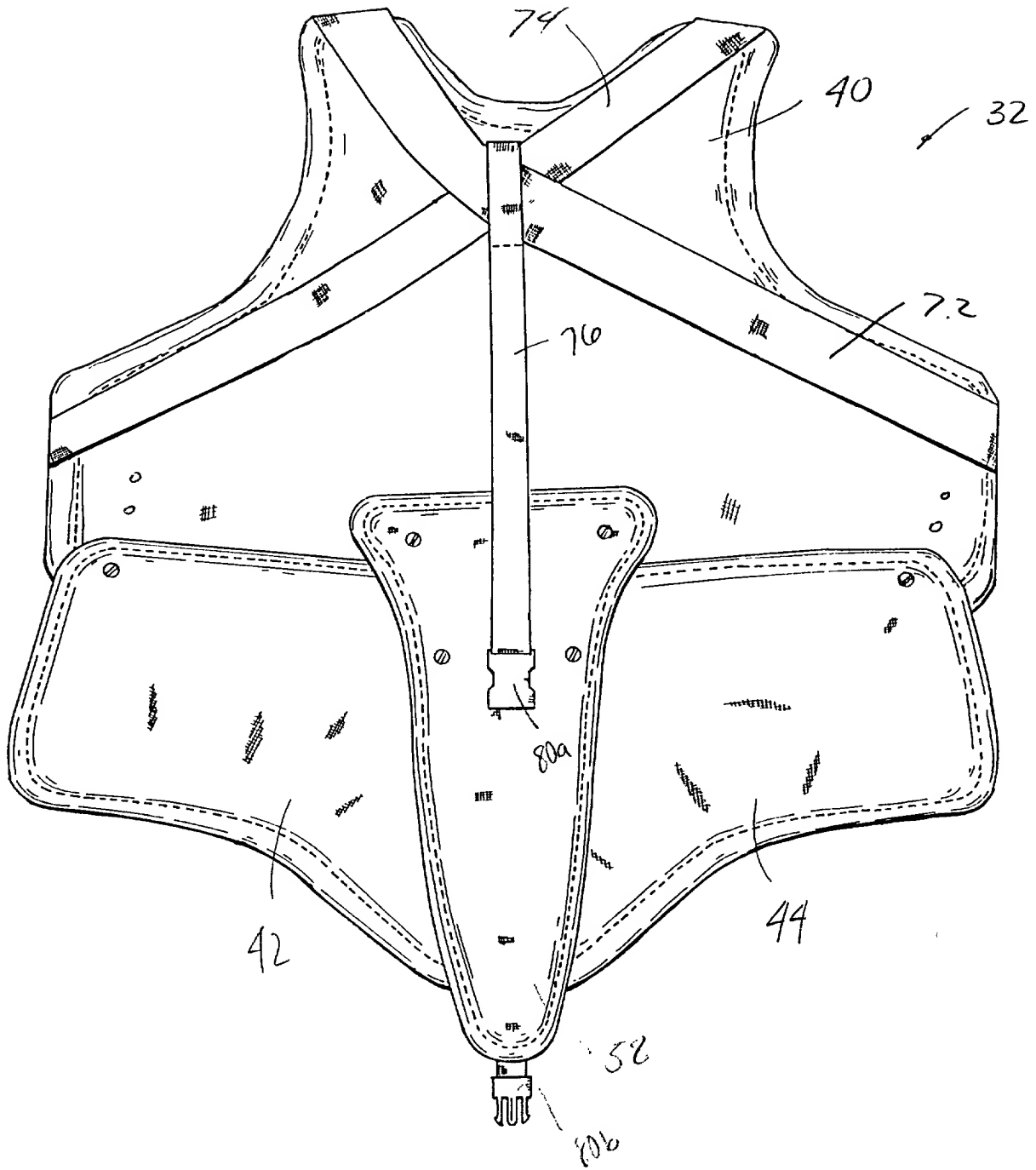


FIG. 3

Patented Feb. 26, 1968  
U.S. Pat. 3,382,244

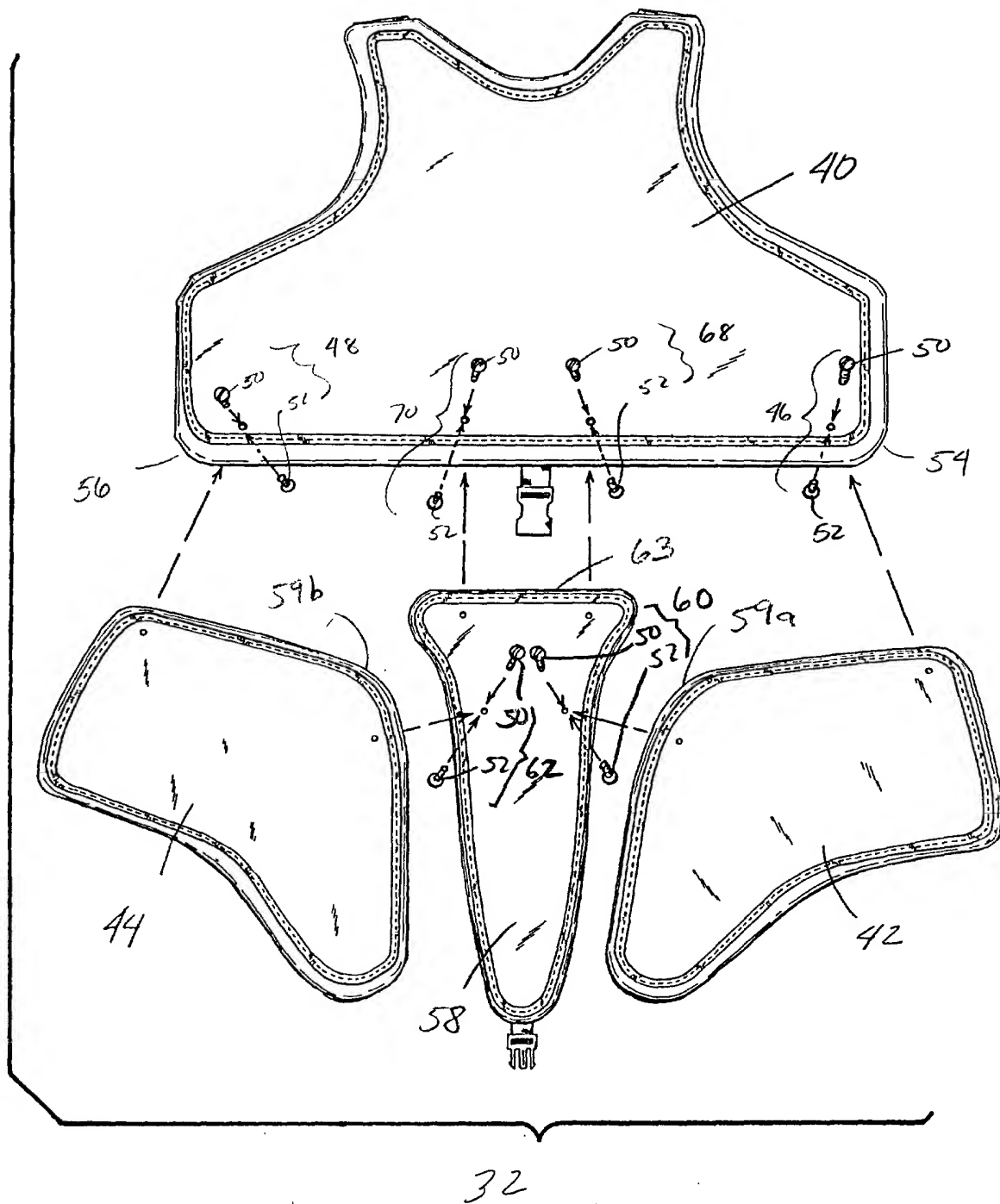


FIG. 4

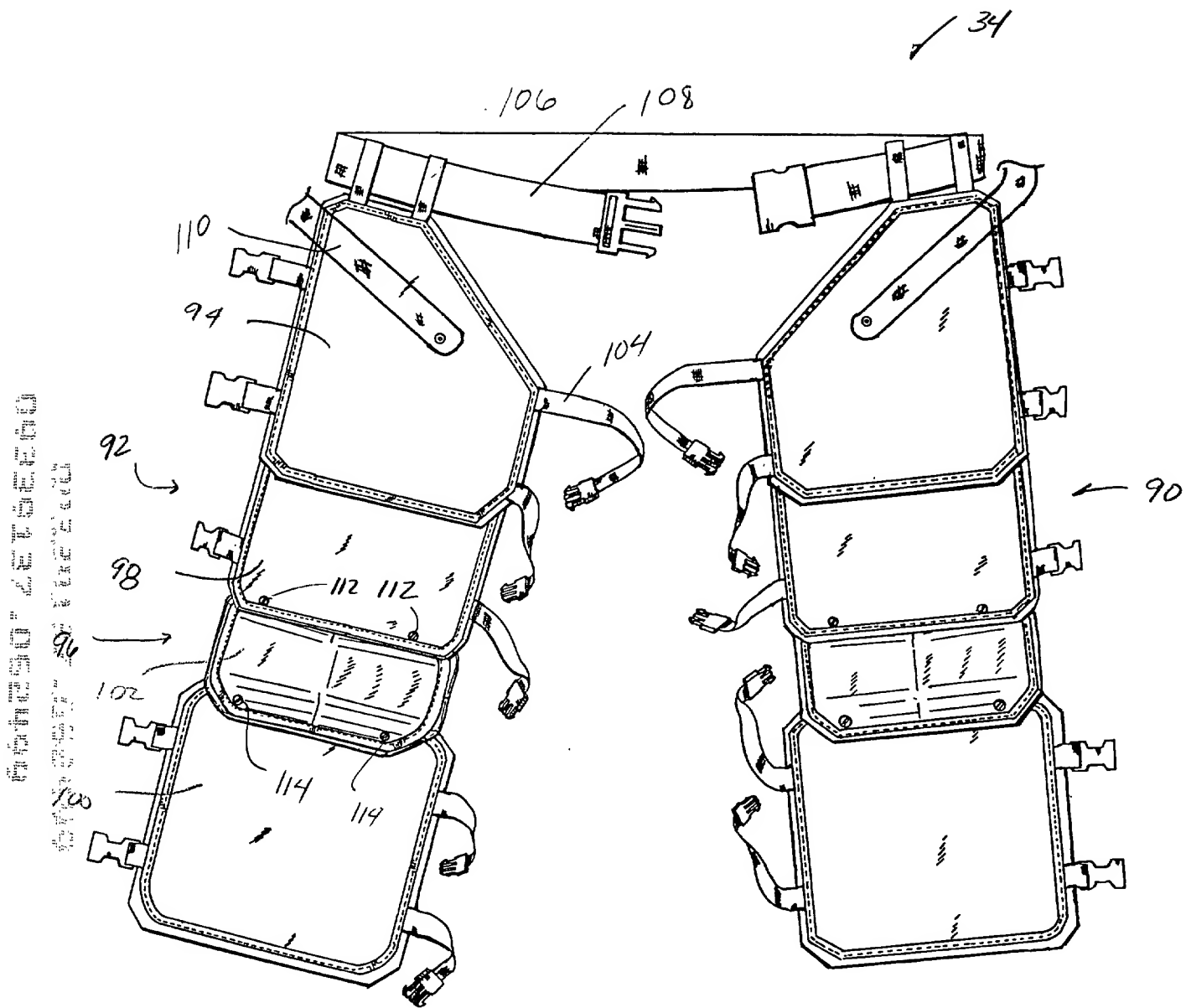


FIG. 5

60499 230320  
60499 230320

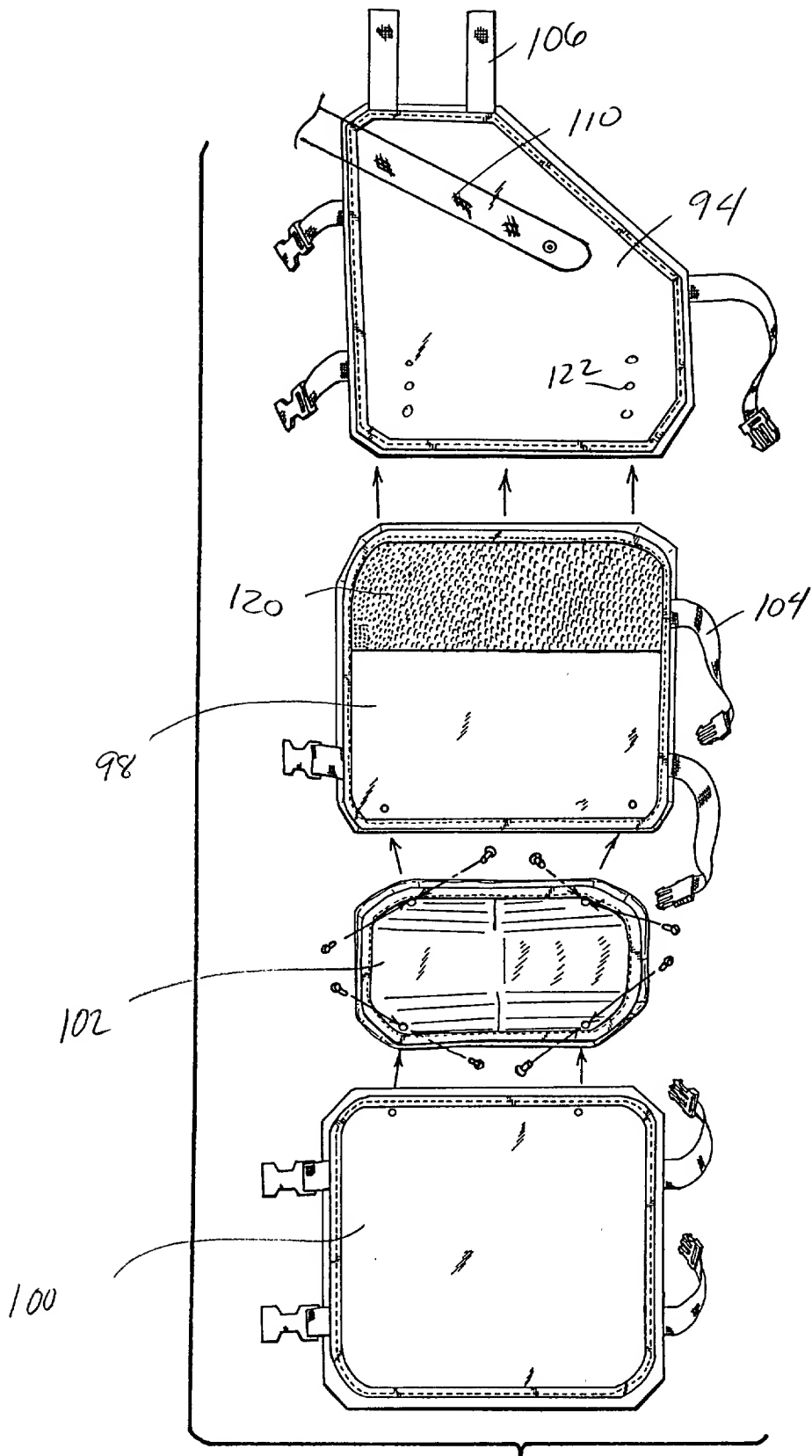


FIG. 6

FIG. 7

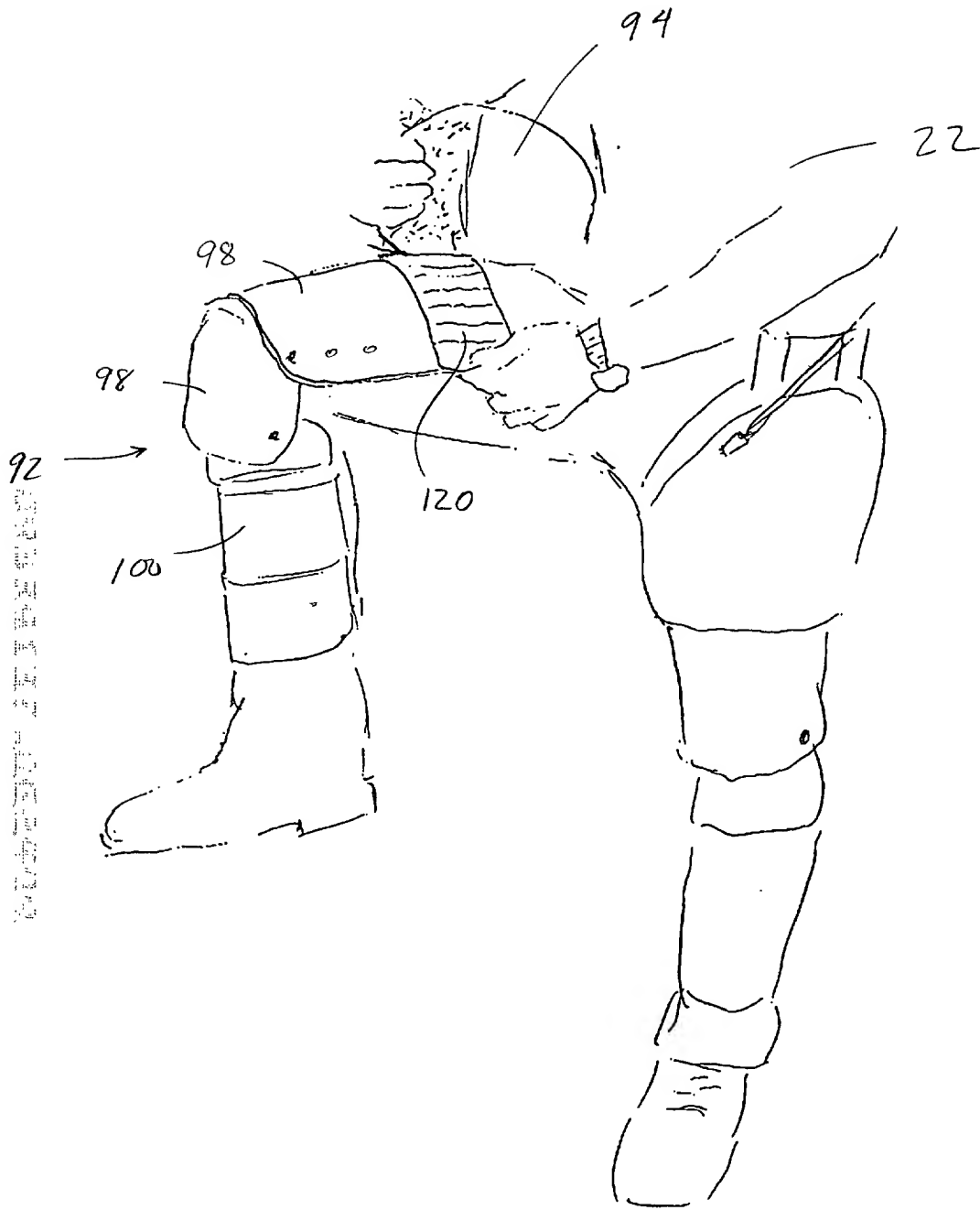


FIG. 7

FIG. 8

FIG. 9

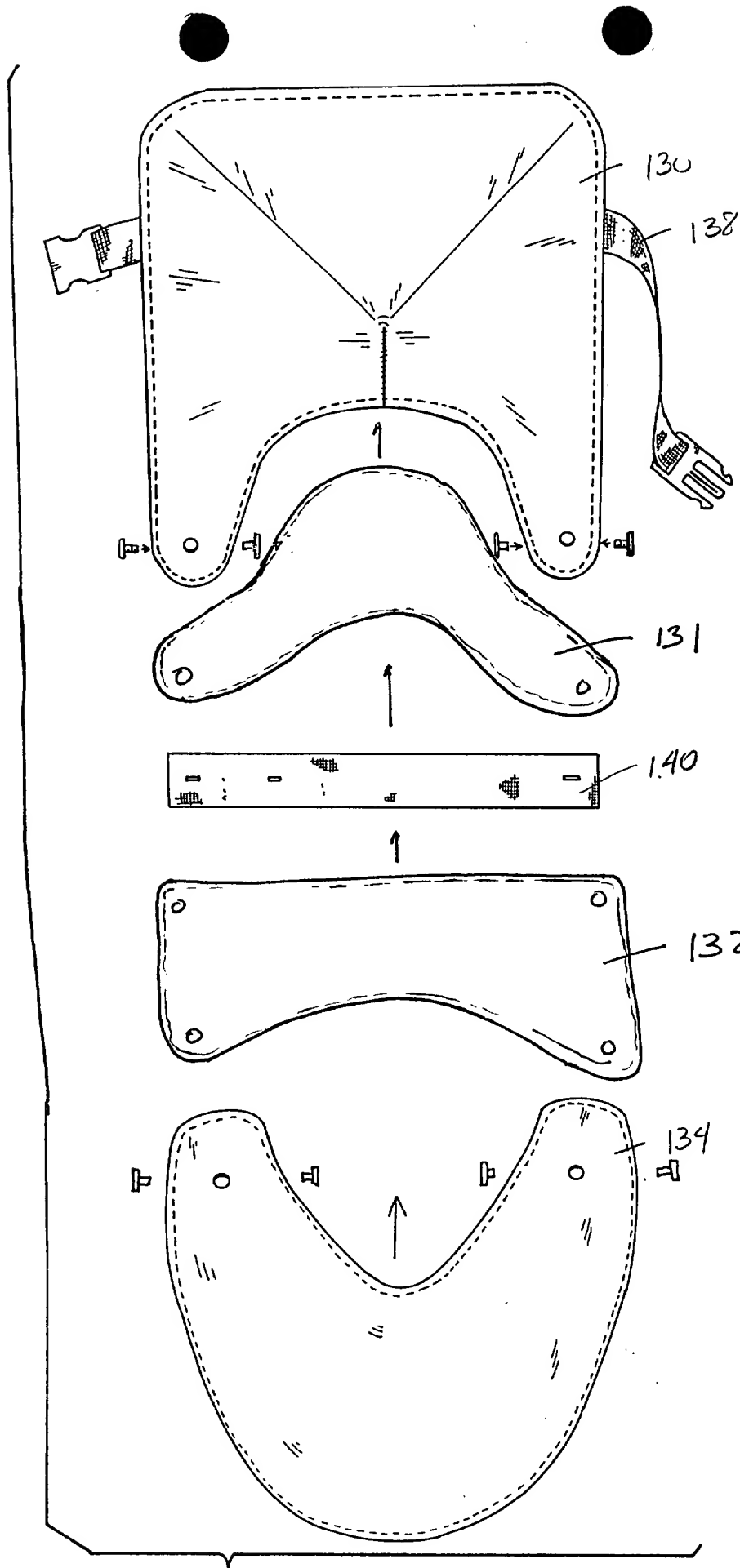


FIG. 9

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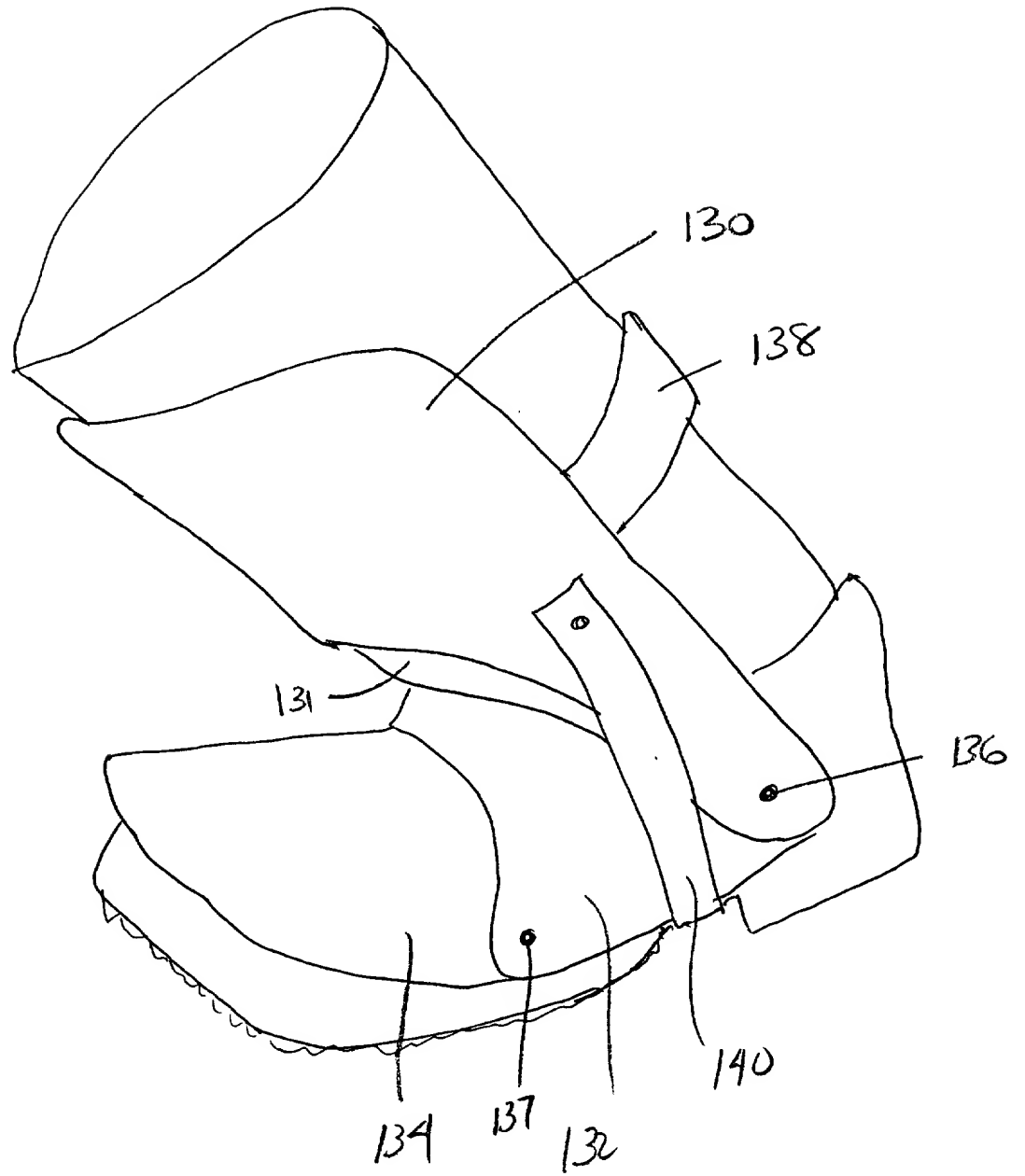


FIG. 10

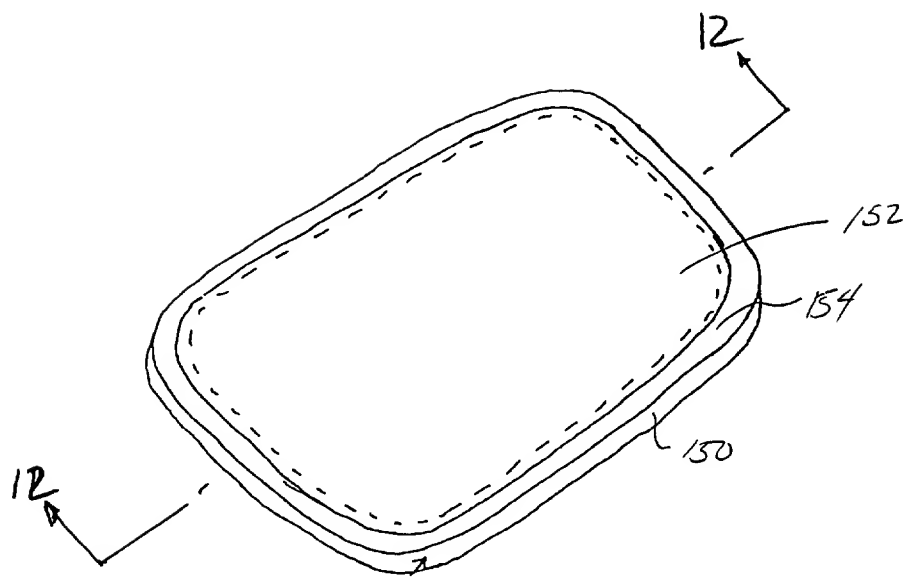


FIG. 11

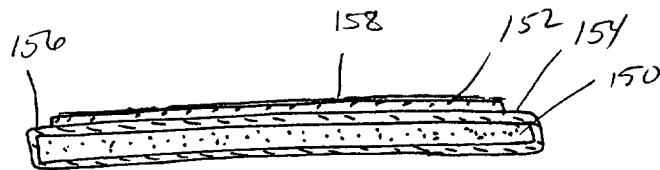


FIG. 12a

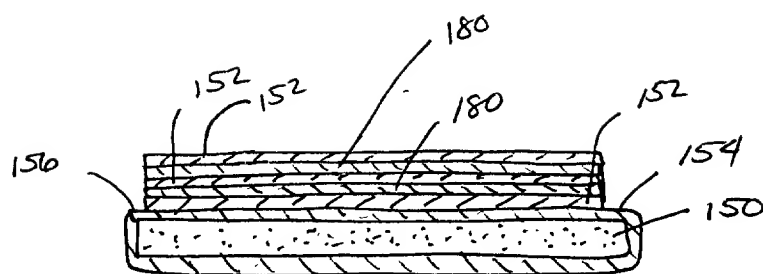


Fig. 12b

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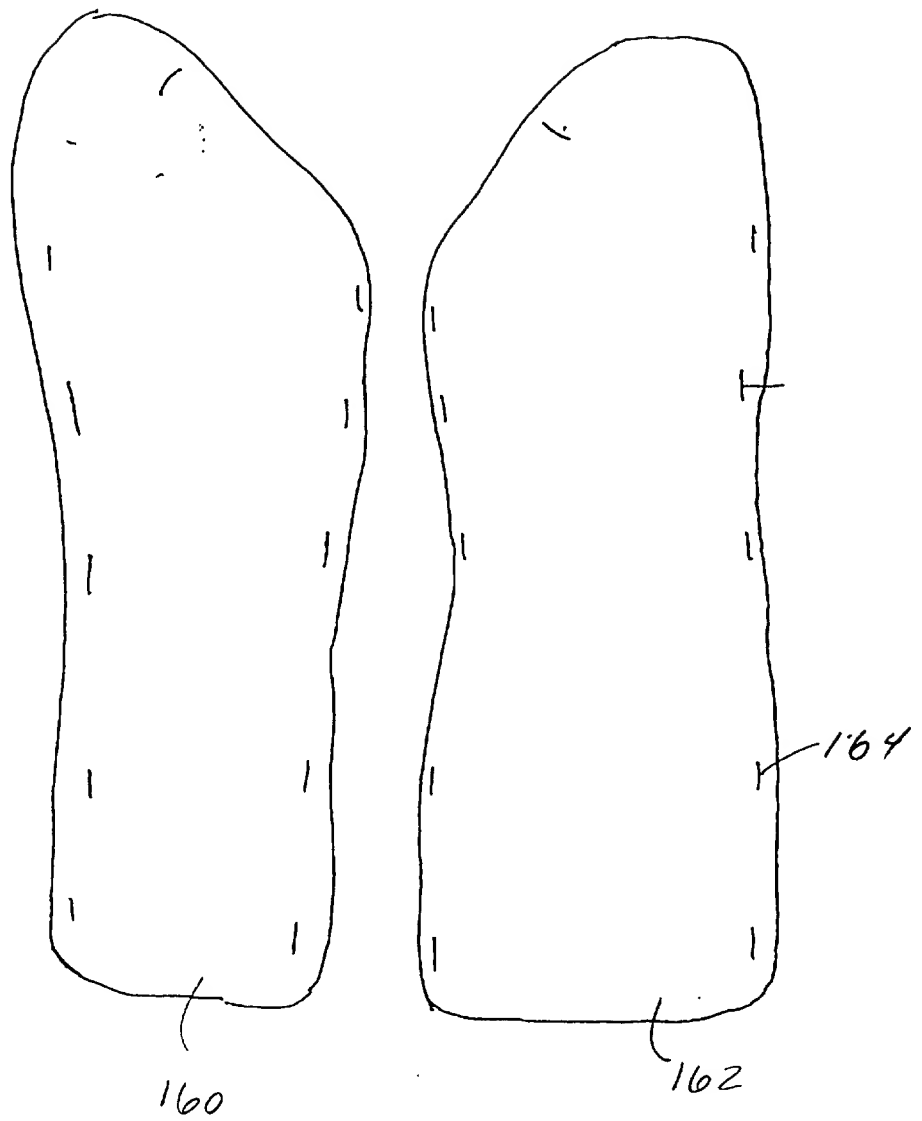


FIG. 13

FIG. 14

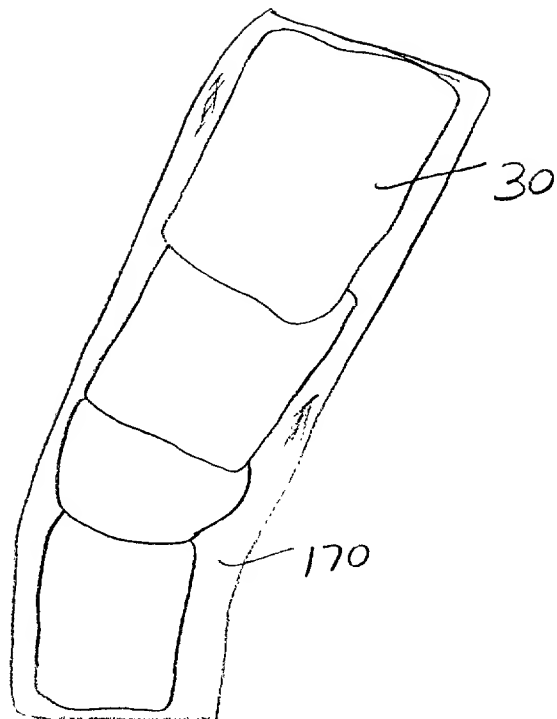


FIG. 14

FIG. 15

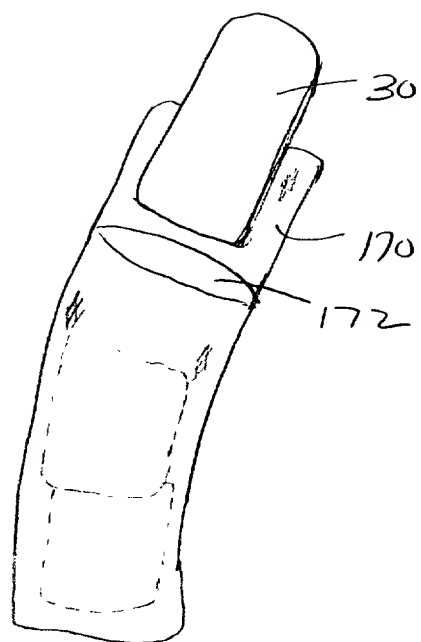


FIG. 15